

# **Professor Vassilis Angelopoulos**

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Dr. Angelopoulos has been a professor at the Earth, Planetary and Space Sciences and Institute of Geophysics and Planetary Physics, UCLA, Los Angeles, CA, since 2007. He teaches introductory and advanced classes in plasma physics; space physics; exploration geophysics; space instrumentation and data analysis; and general education courses in planetary science. He Received his Ph.D. in Physics at UCLA, in 1993 and BS in Physics at Aristotle University of Thessaloniki, Greece, in 1986. After receiving his Ph.D., Dr. Angelopoulos was a Post-Doctoral Researcher, Applied Physics Laboratory, JHU; Research Physicist, Space Sciences Laboratory, University of California, Berkeley and Research Scientist, Jet Propulsion Laboratory, Pasadena, CA (joint with SSL/UCB). He is currently an Associate/Full Professor at EPSS/IGPP, UCLA.

Professor Angelopoulos' primary area of scientific research is to understand how particles are accelerated in Earth's magnetosphere, how the upper atmosphere and ionosphere respond to space currents, and how the lunar environment is affected by its interaction with the solar wind. As Principal Investigator of NASA's THEMIS and ARTEMIS missions he led the development of the associated five satellites and twenty ground-based observatories, including the instrument hardware and the data analysis software; he is currently leading the scientific analysis phase of those missions. At UCLA he proposed, oversaw the development, successful launch, and flawless operation of the two ELFIN CubeSats, till their deorbit, in September 2022. Since its inception, >400 undergraduates have been trained on ELFIN under his and his group's mentorship.

Professor Angelopoulos has received numerous awards such as UCLA Inaugural Physical Science Centennial Mentorship Award (2020), NASA award for "successful delivery, launch and operations of the THEMIS probes (2008), AGU Macelwane Medal (2001), COSPAR/Russian Academy of Sciences Zeldovich Medal (2000) and AGU Fred Scarf Award for best Ph.D. thesis in Space Physics and Aeronomy in 1993 (1994).

He has several recent, first author publications such as "Energetic electron precipitation driven by EMIC waves from ELFIN's low altitude perspective (2023), Space Sci. Rev., <https://doi.org/10.1007/s11214-023-00984-w>"; "The ELFIN Mission (2020), Space Sci. Rev., <https://doi.org/10.1007/s11214-1-7020-00721-7>"; "Near-Earth Magnetotail Reconnection Powers Space Storms (2020), Nat. Phys., doi:10.1038/s41567-019-0749-4"; "The Space Physics Environment Data Analysis System (SPEDAS) (2019), Space Sci. Rev., DOI: 10.1007/s11214-018-0576-4"; "The Space Physics Environment Data Analysis System (SPEDAS) (2019), Space Sci. Rev., DOI: 10.1007/s11214-018-0576-4"; "Electromagnetic Energy Conversion at Reconnection Fronts (2013), Science, 341, 1478-1482, DOI: 10.1126/science.1236992"; "The ARTEMIS Mission, Space Sci. Rev., (2010) doi:10.1007/s11214-010-9687-2."; "Tail Reconnection Triggering Substorm Onset, Science, 321 (5891) 931, 2008." and "The THEMIS Mission, Space Sci. Rev., doi:10.1007/s 11214-008-9336-1, 2008".